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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,045	03/11/2004	Jin-Guang Teng	007198-587	4689
21839 7590 03/18/2008 BUCHANAN, INGERSOLL & ROONEY PC			EXAMINER	
POST OFFICE	BOX 1404	CHAPMAN, JEANETTE E		
ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER
			3633	
			NOTIFICATION DATE	DELIVERY MODE
			03/18/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com

		Application No.	Applicant(s)			
Office Action Commence		10/797,045	TENG, JIN-GUANG			
	Office Action Summary	Examiner	Art Unit			
		Jeanette E. Chapman	3633			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) 又	Responsive to communication(s) filed on <u>04 De</u>	ecember 2007.				
'=	• • • • • • • • • • • • • • • • • • • •	action is non-final.				
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
			3 3.3.2.3.			
Dispositi	on of Claims					
4)🛛	Claim(s) 1,3-9 and 11 is/are pending in the app	olication.				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	Claim(s) is/are allowed.					
· · · · · · · · · · · · · · · · · · ·	Claim(s) <u>1,3-9 and 11</u> is/are rejected.					
· ·	Claim(s) is/are objected to.					
·	Claim(s) are subject to restriction and/or	election requirement				
٥/١	are subject to restriction and on	olosion roquirement.				
Applicati	on Papers					
9)□	The specification is objected to by the Examine	•				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
.0/						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
' ' / 🗀	The datiful declaration is objected to by the Ex	ammer. Note the attached Office	ACTION OF IOTHER 10-132.			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Satake et al(4142555) in view of Mirmiran et al (5599599).

Satake discloses a double skin tubular construction;

- 1. a reinforced polymer outer tube 4;
- 2. an inner tube 1 made from a steel material
- a filler material 3 between the outer and the inner tube 4 and 1 respectively
- 4. the providing and inserting steps have obviously been performed by Satke as they are shown
- 5. the fibber reinforced polymer acts as a construction form during a curing stage of the filler as much as applicants polymer performs with the same limitations; there are no real or positively recited method steps in claim 9.

Mirmiran discloses a plurality of fibre reinforced polymer layers (column 3, line 62 through line 4 line 10) including a majority of fibers oriented circumferentially around the tube. Mirmiran discloses a filler mater provided between the outer tube and the inner tube.

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The material for the aggregate filler and the method in which the fibre reinforce polymer has been made has been considered a matter of choice. One of ordinary skill in the art would have appreciated all of the known types of fillers and aggregates and would have selected any one capable of filling the intended use, function and purpose of the invention. Moreover, the claims are not directed to a method but article the fibre reinforced polymer layers are shown by mirmiran. It would have been obvious to one of ordinary skill in the art to modify Satake to include the bound aggregate material of any material in order to strengthen the tubular structure and to protect any steel or metal bars from the effects of corrosion. One of ordinary skill in the art would have appreciated all the methods to construct them and would have selected any one method commensurate with the intended use and financial budget.

Response to Arguments

Applicant's arguments with respect to claims 1, 3-9 and 11 have been considered but are not deemed persuasive.

Applicant emphasis that the bound aggregate filler between an outer and an inner tube.

Claim 2 of mirmiran discloses an interior pultruded member of fiber (aggregate) and resin. Satake discloses the outer reinforced polymer tube and in the inner tube made from steel. Satake discloses that elements 3 and 4 are corrosive preventive and composite materials, respectively. The material of mirmiram is corrosive preventive and a composite. The contentions stated on pages 2 and 3 of the response do not overcome

the rejection. Perhaps the combination of Satake and Mirmiram do not function as optimally as applicant intended but the combination still provides for the recited claim. One of ordinary skill in the art would have been motivated to include the interior pultruded layer to strengthen the overall structure while preventing corrosion.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chapman E. Jeanette whose telephone number is 571-272-6841. The examiner can normally be reached on Mon.-thursday, 8:30-6:00, every fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Glessner can be reached on 571-272-6843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JEANETTE CHAPMAN/ PRIMARY PATENT EXAMINER ART UNIT 3633